*Please provide the following information, and submit to the NOAA DM Plan Repository.*

**Reference to Master DM Plan (if applicable)**

*As stated in Section IV, Requirement 1.3, DM Plans may be hierarchical. If this DM Plan inherits provisions from a higher-level DM Plan already submitted to the Repository, then this more-specific Plan only needs to provide information that differs from what was provided in the Master DM Plan.*

URL of higher-level DM Plan (if any) as submitted to DM Plan Repository:

## 1. General Description of Data to be Managed

### 1.1. Name of the Data, data collection Project, or data-producing Program:

AFSC/RACE/EcoFOCI: Chlorophyll: variability in spring chlorophyll concentrations and zooplankotn on the eastern Bering Sea shelf - cruise Healy 07-01

### 1.2. Summary description of the data:

These data were collected under NSF Grant # ARC-0722448 ("BEST: Impacts of Sea-ice on the Hydrographic Structure, Nutrients, and Mesozooplankton over the Eastern Bering Sea Shelf") to Dr. G.L. Hunt, Jr., University of Washington.

The eastern Bering Sea shelf supports productive marine ecosystems with extraordinarily valuable fisheries and subsistence resources, but sub-arctic seas are

predicted to be one of the regions most sensitive to future warming of the world oceans. Some of the most direct effects of changing climate will be on the extent, duration and timing of sea-ice over the Bering Sea shelf. Sea-ice controls the timing of the spring phytoplankton bloom, the fate of primary production, water column temperature and salinity, and provides a haul out and molting platform for marine mammals. Thus, the

most urgent priority of the Bering Sea Ecosystem Study (BEST) is to examine the role of changing sea-ice conditions on the chemical, physical, and biological characteristics of the ecosystem. The first BEST cruise was scheduled on the USCG Healy in April-May

2007, however, physical observations, water column nutrient chemistry, and zooplankton

distribution / abundance were not among the ecosystem components funded in the first call for proposals. Project ARC-0722448 funded by NSF after the first call for BEST proposals filled this gap in chlorophyll collections until the remainder of BEST projects could be assembled in 2008.

### 1.3. Is this a one-time data collection, or an ongoing series of measurements?

One-time data collection

### 1.4. Actual or planned temporal coverage of the data:

2007-04-10 to 2007-05-12

**1.5. Actual or planned geographic coverage of the data:**
W: -180, E: -160, N: 65, S: 54

**1.6. Type(s) of data:**
*(e.g., digital numeric data, imagery, photographs, video, audio, database, tabular data, etc.)*
Table (digital)

**1.7. Data collection method(s):**
*(e.g., satellite, airplane, unmanned aerial system, radar, weather station, moored buoy, research vessel, autonomous underwater vehicle, animal tagging, manual surveys, enforcement activities, numerical model, etc.)*
Instrument: human examination of samples, SeaCat, CTD
Platform: wire, bongo
Physical Collection / Fishing Gear: bongo, CalVET, CTD, Seacat

**1.8. If data are from a NOAA Observing System of Record, indicate name of system:**

**1.8.1. If data are from another observing system, please specify:**

## 2. Point of Contact for this Data Management Plan (author or maintainer)

**2.1. Name:**
Tiffany C Vance

**2.2. Title:**
Metadata Contact

**2.3. Affiliation or facility:**
Alaska Fisheries Science Center

**2.4. E-mail address:**
tiffany.c.vance@noaa.gov

**2.5. Phone number:**

## 3. Responsible Party for Data Management

*Program Managers, or their designee, shall be responsible for assuring the proper management of the data produced by their Program. Please indicate the responsible party below.*

**3.1. Name:**
Kimberly Bahl

**3.2. Title:**
Data Steward

## 4. Resources

*Programs must identify resources within their own budget for managing the data they produce.*

**4.1. Have resources for management of these data been identified?**

No

**4.2. Approximate percentage of the budget for these data devoted to data management ( specify percentage or "unknown"):**

Unknown

**5. Data Lineage and Quality**

*NOAA has issued Information Quality Guidelines for ensuring and maximizing the quality, objectivity, utility, and integrity of information which it disseminates.*

**5.1. Processing workflow of the data from collection or acquisition to making it publicly accessible**

*(describe or provide URL of description):*

Lineage Statement:
See InPort entries 26275, 26373 and 26570.

**5.1.1. If data at different stages of the workflow, or products derived from these data, are subject to a separate data management plan, provide reference to other plan:**

**5.2. Quality control procedures employed (describe or provide URL of description):**

See InPort entries 26275, 26373 and 26570.

**6. Data Documentation**

*The EDMC Data Documentation Procedural Directive requires that NOAA data be well documented, specifies the use of ISO 19115 and related standards for documentation of new data, and provides links to resources and tools for metadata creation and validation.*

**6.1. Does metadata comply with EDMC Data Documentation directive?**

Yes

**6.1.1. If metadata are non-existent or non-compliant, please explain:**

**6.2. Name of organization or facility providing metadata hosting:**

NMFS Office of Science and Technology

**6.2.1. If service is needed for metadata hosting, please indicate:**

**6.3. URL of metadata folder or data catalog, if known:**

https://inport.nmfs.noaa.gov/inport/item/17098

**6.4. Process for producing and maintaining metadata**

*(describe or provide URL of description):*

Metadata produced and maintained in accordance with the NMFS Data Documentation Procedural Directive: https://inport.nmfs.noaa.gov/inport/downloads/data-documentation-procedural-directive.pdf

**7. Data Access**

*NAO 212-15 states that access to environmental data may only be restricted when distribution is explicitly limited by law, regulation, policy (such as those applicable to personally identifiable information or protected critical infrastructure information or proprietary trade information) or by security requirements. The EDMC Data Access Procedural Directive contains specific guidance, recommends the use of open-standard, interoperable, non-proprietary web services, provides information about resources and tools to enable data access, and includes a Waiver to be submitted to justify any approach other than full, unrestricted public access.*

**7.1. Do these data comply with the Data Access directive?**

No

**7.1.1. If the data are not to be made available to the public at all, or with limitations, has a Waiver (Appendix A of Data Access directive) been filed?**

No

**7.1.2. If there are limitations to public data access, describe how data are protected from unauthorized access or disclosure:**

None

**7.2. Name of organization of facility providing data access:**

Alaska Fisheries Science Center

**7.2.1. If data hosting service is needed, please indicate:**

**7.2.2. URL of data access service, if known:**

http://ecodaat.afsc.noaa.gov
http://epic.noaa.gov

**7.3. Data access methods or services offered:**

Contact Distributor

**7.4. Approximate delay between data collection and dissemination:**

varies

**7.4.1. If delay is longer than latency of automated processing, indicate under what authority data access is delayed:**

Requires human identification of organisms.

**8. Data Preservation and Protection**

*The NOAA Procedure for Scientific Records Appraisal and Archive Approval describes how to identify, appraise and decide what scientific records are to be preserved in a NOAA archive.*

**8.1. Actual or planned long-term data archive location:**
*(Specify NCEI-MD, NCEI-CO, NCEI-NC, NCEI-MS, World Data Center (WDC) facility, Other, To Be Determined, Unable to Archive, or No Archiving Intended)*
Other

**8.1.1. If World Data Center or Other, specify:**
http://ecodaat.afsc.noaa.gov

**8.1.2. If To Be Determined, Unable to Archive or No Archiving Intended, explain:**

**8.2. Data storage facility prior to being sent to an archive facility (if any):**
Alaska Fisheries Science Center - Seattle, WA

**8.3. Approximate delay between data collection and submission to an archive facility:**
varies

**8.4. How will the data be protected from accidental or malicious modification or deletion prior to receipt by the archive?**
*Discuss data back-up, disaster recovery/contingency planning, and off-site data storage relevant to the data collection*
local and offsite backups

**9. Additional Line Office or Staff Office Questions**
*Line and Staff Offices may extend this template by inserting additional questions in this section.*